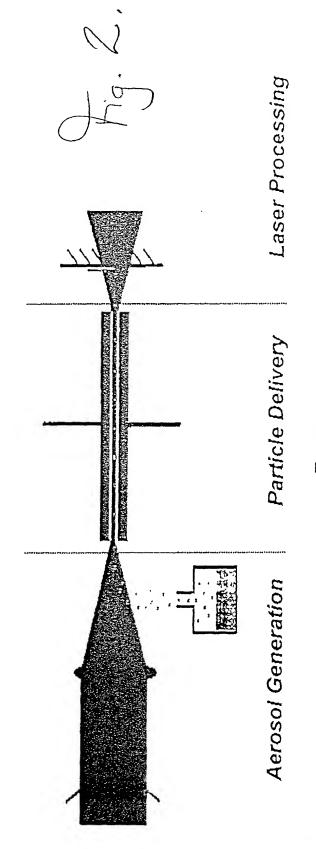


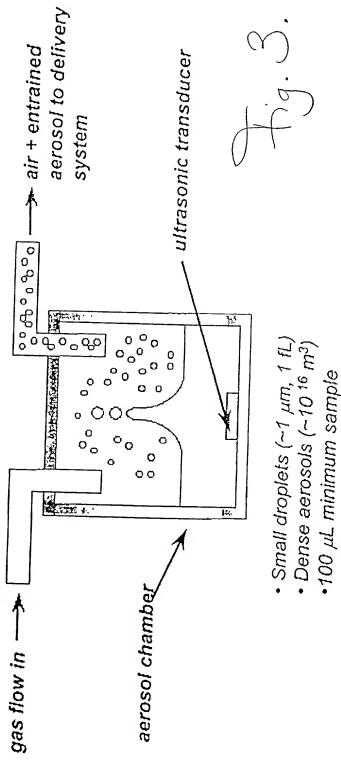
Features

- High Velocity (~10m/s)
 Variable Beam Diameter (10 µm)
 High Throughput (~ 10 ⁹ s⁻¹ in 100µm beam)
 - - Reduced Clogging
 Long Working Distance (~ few cm)
 - Simultaneous Laser Treatment



Features

- Small droplets (~1 μm) Dense aerosols (~10 16 m^3)
- Accuracy to 3 µm
- Single particle to 109 particles/s
 Throughput to 0.25
 - mm³/s
- Low power (~ 50 mW)
- High scan rate (~1 m/s) Dense, conductive
 - materials (p~2x bulk)



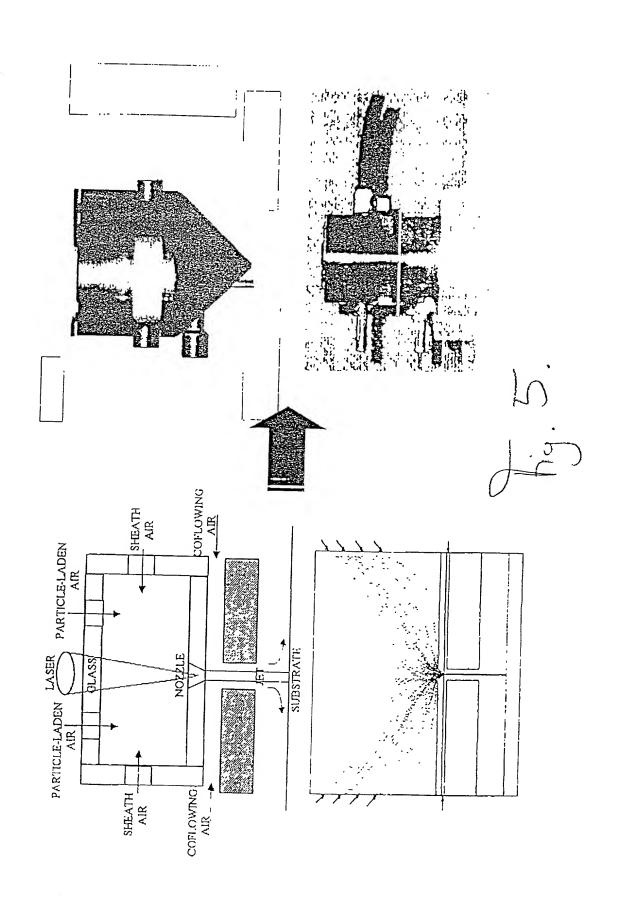
- All solids, all precursors, or solid/precursor mixtures
 - Precursor based alloys with atomic scale mixing
- Organic and biological entities in droplets (enzymes, proteins, virus, etc.)

Air Jet

-Large Particles (1-30 µm)
igh Viscosity Fluids
Gompressed AirJetanimal Cells + Media

acteria

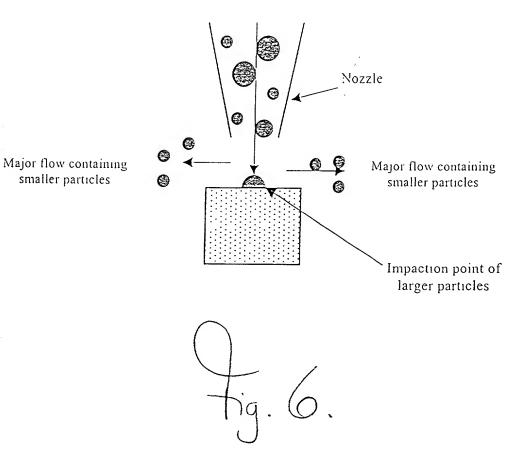
Particulate in Suspension



smaller particles

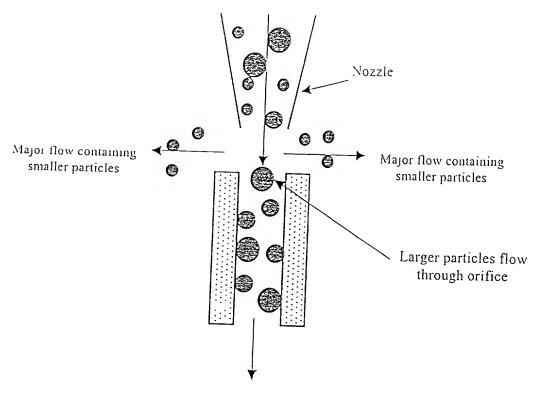
Cascade Impaction

Gas stream carrying various size particles



Virtual Impactor

Gas stream carrying various size particles

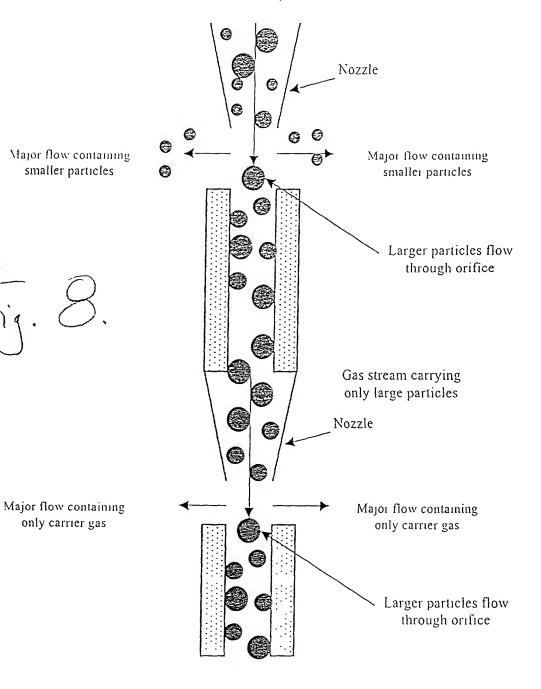


Minor Flow containing large particles



Virtual Impactors in Series

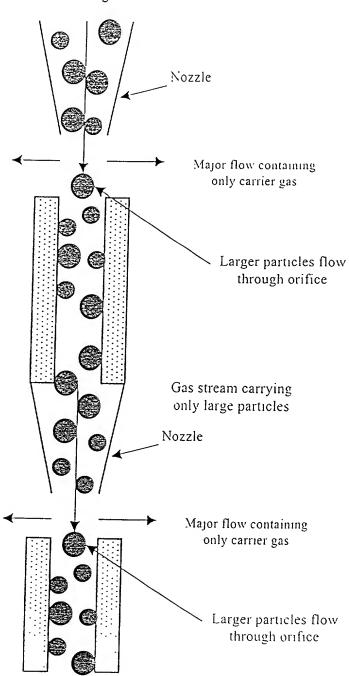
Gas stream carrying various size particles



The state of the s

Particle Sorting at Atomization Unit & Virtual Impactors in Series

Gas stream carrying only large particles from the atomizing unit

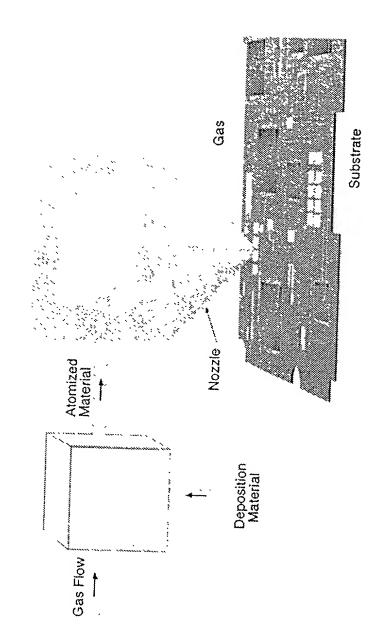


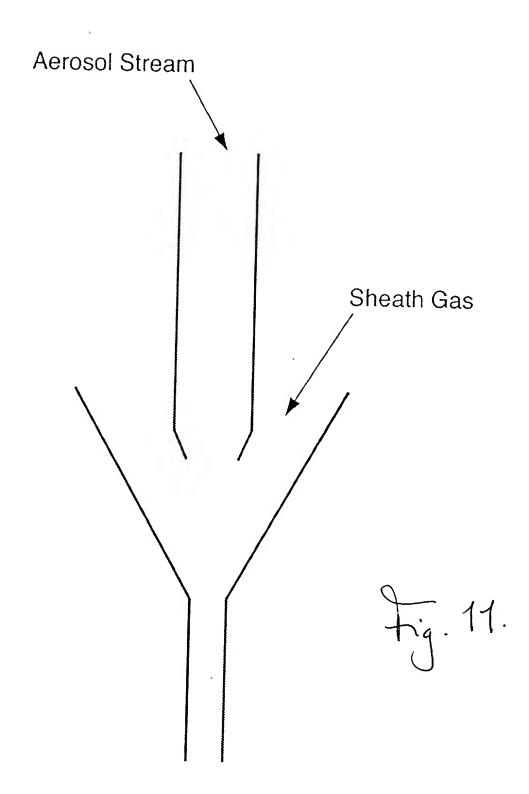
The first construction and the first state of the f Major flow containing only carrier gas

Major flow containing only carrier gas

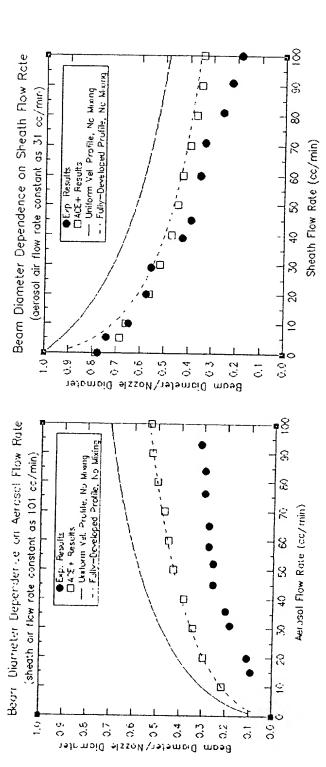
· .

Flow Guidance Delivery System

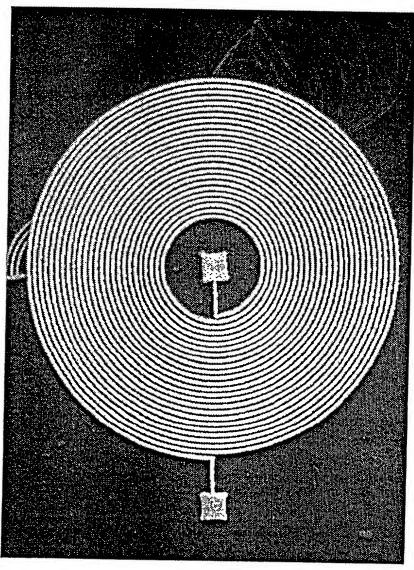




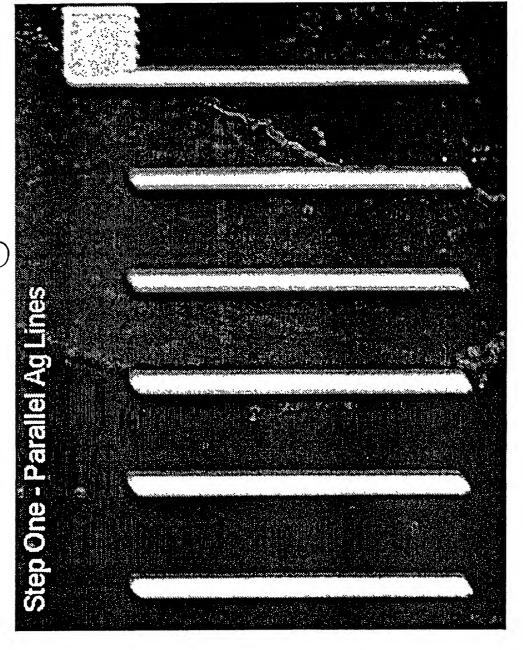
Hig. 12.

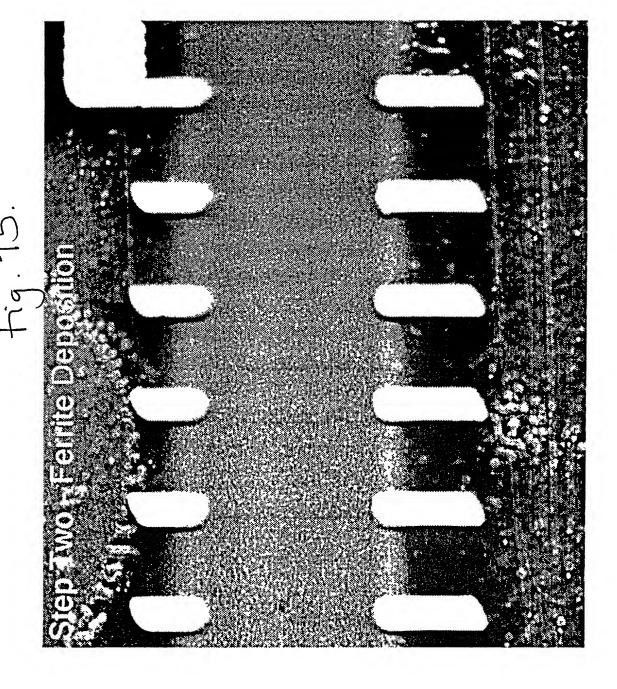


Mg. 13.



F. 4.





Hg. 16.

